

L10 FILE 'REGISTRY' ENTERED AT 15:03:11 ON 06 MAY 2009
74890 S [GXA][SXAIV][SK][FXWY][LXAVF][SXAGTV]/SQSP

FILE 'HCAPLUS' ENTERED AT 15:05:16 ON 06 MAY 2009

FILE 'REGISTRY' ENTERED AT 15:08:45 ON 06 MAY 2009

L11 FILE 'REGISTRY' ENTERED AT 15:09:01 ON 06 MAY 2009
L12 761 S GSSFLS/SQSP
L12 74129 S L10 NOT L11
L35 29 S L12 AND GHRELIN

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YOU HAVE REQUESTED DATA FROM 10 ANSWERS - CONTINUE? Y/(N):y

L35 ANSWER 20 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2005:182920 HCAPLUS

DN 142:258503

TI Secreted polypeptide species in human plasma, detection assays for smaller proteins and tryptic peptides, and expression profiles useful for disease diagnosis

IN Argoud-puy, Guilaine; Bederr, Nassima; Bougueleret, Lydie; Cusin, Isabelle; Mahe, Eve; Niknejad, Anne; Refas, Samia; Rose, Keith; Saudrais, Cedric; Scherer, Andreas; Papoian, Ruben; Dengler, Uwe Jochen; Croft, Laurence James

PA Genova Ltd., Bermuda; Novartis Ag; Novartis Pharma GmbH

SO PCT Int. Appl., 284 pp.

CODEN: PIXXD2

DT Patent

LA English

FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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PI WO 2005019825	A2	20050303	WO 2004-EP9323	20040819
WO 2005019825	A3	20050811		
W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
RW:	BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
EP 1658502	A2	20060524	EP 2004-764307	20040819
R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK			
JP 2007502971	T	20070215	JP 2006-523609	20040819
PRAI US 2003-496966P	P	20030820		
WO 2004-EP9323	W	20040819		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB The invention relates to polypeptide species secreted in human plasma, isolated polynucleotides encoding such polypeptides, polymorphic variants thereof, and the use of said nucleic acids and polypeptides or comps.

845823-73-6	845823-74-7	845823-75-8	845823-76-9	845823-77-0
845823-78-1	845823-79-2	845823-80-5	845823-81-6	845823-82-7
845823-83-8	845823-84-9	845823-85-0	845823-86-1	845823-87-2
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845824-28-4	845824-29-5	845824-30-8		

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(secreted polypeptide species in human plasma, detection assays for smaller proteins and tryptic peptides, and expression profiles useful for disease diagnosis)

IT	845824-31-9	845824-32-0	845824-33-1	845824-34-2	845824-35-3
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	845855-91-6	845855-92-7	845855-93-8	845855-94-9	

RL: ANT (Analyte); BSU (Biological study, unclassified); DGN (Diagnostic use); THU (Therapeutic use); ANST (Analytical study); BIOL (Biological study); USES (Uses)

(secreted polypeptide species in human plasma, detection assays for smaller proteins and tryptic peptides, and expression profiles useful for disease diagnosis)

L35 ANSWER 21 OF 29 HC4PLUS COPYRIGHT 2009 ACS on STN
 AN 2004:494909 HC4PLUS
 DN 141:154237
 TI In vitro and in vivo effects of *ghrelin* on luteinizing hormone and growth hormone release in goldfish
 AU Unniappan, Suraj; Peter, Richard E.
 CS Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Can.
 SO American Journal of Physiology (2004), 286(6, Pt. 2), R1093-R1101

- TI In vitro and in vivo effects of ghrelin on luteinizing hormone and growth hormone release in goldfish
- AB The authors studied the in vitro and in vivo effects of octanoylated goldfish ghrelin peptides (gGRL-19 and gGRL-12) on LH and growth hormone (GH) release in goldfish. gGRL-19 and gGRL-12 at picomolar doses stimulated LH and GH release from dispersed goldfish pituitary cells in perifusion and static incubation. Incubation of pituitary cells for 2 h with 10 nM gGRL-12 and 1 or 10 nM gGRL-19 increased LH- β mRNA expression, whereas only 10 nM gGRL-19 increased GH mRNA expression. Somatostatin-14 abolished the stimulatory effects of ghrelin on GH release from dispersed pituitary cells in perifusion and static culture. The GH secretagogue receptor antagonist d-Lys3-GHRP-6 inhibited the ghrelin-induced LH release, whereas no effects were found on stimulation of GH release by ghrelin. Intracerebroventricular injection of 1 ng/g body wt of gGRL-19 or i.p. injection of 100 ng/g body wt of gGRL-19 increased serum LH levels at 60 min after injection, whereas significant increases in GH levels were found at 15 and 30 min after these treatments. The authors' results indicate that, in addition to its potent stimulatory actions on GH release, goldfish ghrelin peptides have the novel function of stimulating LH release in goldfish.
- ST goldfish ghrelin LH GH
- IT Growth hormone secretagogue receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(1a; in vitro and in vivo effects of ghrelin on LH and growth hormone release in goldfish)
- IT Carassius auratus
Pituitary gland
(in vitro and in vivo effects of ghrelin on LH and growth hormone release in goldfish)
- IT 9002-67-9, Luteinizing hormone 9002-72-6, Growth hormone 51110-01-1, Somatostatin-14 693224-54-3 693224-55-4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(in vitro and in vivo effects of ghrelin on LH and growth hormone release in goldfish)

L35 ANSWER 22 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2004:232125 HCAPLUS

DN 140:420998

TI Orexigenic Actions of Ghrelin in Goldfish: Feeding-Induced Changes in Brain and Gut mRNA Expression and Serum Levels, and Responses to Central and Peripheral Injections

AU Unniappan, Suraj; Canosa, Luis Fabian; Peter, Richard E.

CS Department of Biological Sciences, University of Alberta, Edmonton, AB, Can.

SO Neuroendocrinology (2004), 79(2), 100-108

CODEN: NUNDAJ; ISSN: 0028-3835

PB S. Karger AG

DT Journal

LA English

RE.CNT 38 THERE ARE 38 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Orexigenic Actions of Ghrelin in Goldfish: Feeding-Induced

Changes in Brain and Gut mRNA Expression and Serum Levels, and Responses to Central and Peripheral Injections

- AB In this study, the authors examined the preprandial, postprandial and starvation-induced changes in the preproghrelin mRNA expression and serum ghrelin levels, and the effects of intracerebroventricular and i.p. administration of ghrelin on food intake in goldfish (*Carassius auratus*). Slot blot anal. revealed a significant postprandial decrease in preproghrelin mRNA expression in the hypothalamus (1 and 3 h after feeding) and gut (3 h after feeding). A similar postprandial decrease (1 and 3 h after feeding) in serum ghrelin levels was also detected. In the fish that were unfed at the regular feeding time, the hypothalamic preproghrelin mRNA expression and the serum ghrelin levels remained unchanged, while the preproghrelin mRNA expression in the gut decreased 3 h after the regular feeding time. Starvation increased preproghrelin mRNA expression in the hypothalamus and gut on the 7th day. Serum ghrelin levels were significantly elevated on days 3 and 5 of starvation. Intracerebroventricular injections of n-octanoylated ghrelin-like peptides (gGRL[1-12]) (10 ng/g) and human ghrelin (1 and 10 ng/g) and i.p. injections of n-octanoylated gGRL[1-12] (10 ng/g), gGRL[1-19] (100 ng/g) and human ghrelin (10 and 100 ng/g) stimulated food intake in goldfish. The patterns of synthesis, secretion and actions indicate that ghrelin is an orexigen in goldfish.
- ST orexigenic ghrelin goldfish *Carassius*; preproghrelin mRNA digestive tract hypothalamus goldfish feeding starvation; appetite ghrelin goldfish
- IT Blood serum
(ghrelin of blood serum of goldfish in response to feeding and starvation)
- IT Appetite
(orexigenic action of ghrelin in goldfish)
- IT Starvation, animal
(starvation effect on blood ghrelin and digestive tract and hypothalamus preproghrelin mRNA in goldfish)
- IT 258279-04-8, Human ghrelin 693224-54-3
693224-55-4
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(appetite response to ghrelin intracerebroventricular administration in goldfish)
- IT 304853-26-7, Ghrelin
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(orexigenic actions of ghrelin in goldfish)
- IT 322637-19-4, Ghrelin, prepro-
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(preproghrelin mRNA of digestive tract and hypothalamus in goldfish in response to feeding and starvation)
- L35 ANSWER 23 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN
- AN 2004:80708 HCAPLUS
- DN 140:140069
- TI Synthesis and therapeutic uses of ghrelin analogs
- IN Dong, Zheng Xin; Shen, Yeelana
- PA Scientifiques (S.C.R.A.S.) Societe De Conseils De Recherches Et D'Application, Fr.
- SO PCT Int. Appl., 99 pp.
CODEN: PIXXD2
- DT Patent
- LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004009616	A2	20040129	WO 2003-US22925	20030723
	WO 2004009616	A3	20060209		
	W:	AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW			
	RW:	GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG			
	CA 2491946	A1	20040129	CA 2003-2491946	20030723
	AU 2003254119	A1	20040209	AU 2003-254119	20030723
	AU 2003254119	B2	20071129		
	EP 1578778	A2	20050928	EP 2003-765930	20030723
	R:	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK			
	JP 2006515271	T	20060525	JP 2004-523304	20030723
	CN 1832753	A	20060913	CN 2003-817446	20030723
	BR 2003012871	A	20070710	BR 2003-12871	20030723
	RU 2315059	C2	20080120	RU 2005-104841	20030723
	NO 2005000083	A	20050323	NO 2005-83	20050106
	MX 2005000908	A	20050722	MX 2005-908	20050121
	US 20050272648	A1	20051208	US 2005-522398	20050121
	IN 2005KN00153	A	20060609	IN 2005-KN153	20050208
PRAI	US 2002-397834P	P	20020723		
	US 2002-427488P	P	20021119		
	WO 2003-US22925	W	20030723		

RE.CNT 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Synthesis and therapeutic uses of ghrelin analogs

AB The invention comprises the synthesis of peptidyl ghrelin analogs that possess agonist or antagonist activity toward growth hormone secretagogue receptor, along with therapeutic and non-therapeutic uses thereof.

ST ghrelin analogs synthesis GHS receptor wt gain loss

IT AIDS (disease)
Anorexia
Bulimia
Cachexia
Chemotherapy
Dialysis
Immobolization, animal
Radiotherapy
(-associated weight loss; synthesis and therapeutic uses of ghrelin analogs)

IT Amino acids, reactions
RL: RCT (Reactant); RACT (Reactant or reagent)
(N-[fluorenylmethoxycarbonyl]; synthesis and therapeutic uses of ghrelin analogs)

IT Growth hormone secretagogue receptors
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(binding affinity for ghrelin analogs; synthesis and therapeutic uses of ghrelin analogs)

IT Cachexia
(cancerous, -associated weight loss; synthesis and therapeutic uses of ghrelin analogs)

IT Muscle
(cardiac, apoptosis, inhibition of; synthesis and therapeutic uses of ghrelin analogs)

IT Eye, disease
(diabetic retinopathy; synthesis and therapeutic uses of ghrelin analogs)

IT Aging, animal
(elderly, -associated weight loss; synthesis and therapeutic uses of ghrelin analogs)

IT Blood vessel
(endothelium, apoptosis, inhibition of; synthesis and therapeutic uses of ghrelin analogs)

IT Calculi, biliary
Hypertension
Neoplasm
Osteoarthritis
(excessive weight contributing to; synthesis and therapeutic uses of ghrelin analogs)

IT Dyslipidemia
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(excessive weight contributing to; synthesis and therapeutic uses of ghrelin analogs)

IT Heart, disease
(failure, chronic; synthesis and therapeutic uses of ghrelin analogs)

IT Drug screening
(for compds. binding to a GHS receptor; synthesis and therapeutic uses of ghrelin analogs)

IT Body weight
(gain and maintenance; synthesis and therapeutic uses of ghrelin analogs)

IT Apoptosis
(inhibition of; synthesis and therapeutic uses of ghrelin analogs)

IT Body weight
(loss, accessory to another disorder; synthesis and therapeutic uses of ghrelin analogs)

IT Heart
(myocardium, apoptosis, inhibition of; synthesis and therapeutic uses of ghrelin analogs)

IT Antiarthritics
Antidiabetic agents
Antihypertensives
Antiobesity agents
Appetite
Appetite depressants
Appetite stimulants
Cardiovascular agents
Cardiovascular system, disease
Diabetes mellitus
Drug delivery systems
Human
Obesity
Sexual disorders
Wound

Wound healing
Wound healing promoters
(synthesis and therapeutic uses of ghrelin analogs)

IT Bone
(treatment to increase d.; synthesis and therapeutic uses of ghrelin analogs)

IT Muscle
(treatment to increase mass; synthesis and therapeutic uses of ghrelin analogs)

IT Endothelium
(vascular, apoptosis, inhibition of; synthesis and therapeutic uses of ghrelin analogs)

IT Disease, animal
(wasting, -associated weight loss; synthesis and therapeutic uses of ghrelin analogs)

IT 161924-72-7
RL: RCT (Reactant); RACT (Reactant or reagent)
(MBHA resin bound; synthesis and therapeutic uses of ghrelin analogs)

IT 9002-72-6, Growth hormone
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(deficiency, treatment of; synthesis and therapeutic uses of ghrelin analogs)

IT 321974-91-8 321974-93-0
RL: BSU (Biological study, unclassified); BIOL (Biological study)
(not to be used therapeutically; synthesis and therapeutic uses of ghrelin analogs)

IT 304853-26-7DP, Ghrelin, analogs 651048-33-8P
651048-34-9P 651048-35-0P 651048-36-1P
651048-37-2P 651048-38-3P 651048-39-4P
651048-40-7P 651048-41-8P 651048-42-9P
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651050-51-0P 651050-52-1P 651050-53-2P 651050-54-3P 651050-55-4P
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651050-61-2P 651050-62-3P 651050-63-4P 651050-64-5P 651050-65-6P
651050-66-7P 651050-67-8P 651050-68-9P 651050-69-0P 651050-70-3P
651050-71-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU
 (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES
 (Uses)

(synthesis and therapeutic uses of ghrelin analogs)
 IT 651050-72-5P 651050-73-6P 651050-74-7P 651050-75-8P 651050-76-9P
 651050-77-0P 651050-78-1P 651050-79-2P 651050-80-5P 651050-81-6P
 651050-82-7P 651050-83-8P 651050-84-9P 651050-85-0P 651050-86-1P
 651050-87-2P 651050-88-3P 651050-89-4P 651050-90-7P 651050-91-8P
 651050-92-9P 651050-93-0P 651050-94-1P 651050-95-2P 651050-96-3P
 651050-97-4P 651050-98-5P 651050-99-6P 651051-00-2P 651051-01-3P
 651051-02-4P 651051-03-5P 651051-04-6P 651051-05-7P 651051-06-8P
 651051-07-9P 651051-08-0P 651051-09-1P 651051-10-4P 651051-11-5P
 651051-12-6P 651051-13-7P 651051-14-8P 651051-15-9P 651051-16-0P
 651051-17-1P 651051-18-2P 651051-19-3P 651051-20-6P 651051-21-7P
 651051-22-8P 651051-23-9P 651051-24-0P 651051-25-1P 651051-26-2P
 651051-27-3P 651051-28-4P 651051-29-5P 651051-30-8P 651051-31-9P
 651051-32-0P 651051-33-1P 651051-34-2P 651051-35-3P 651051-36-4P
 651051-37-5P 651051-38-6P 651051-39-7P 651051-40-0P 651051-41-1P

651051-42-2P	651051-43-3P	651051-44-4P	651051-45-5P	651051-46-6P
651051-47-7P	651051-48-8P	651051-49-9P	651051-50-2P	651051-51-3P
651051-52-4P	651051-53-5P	651051-54-6P	651051-55-7P	651051-56-8P
651051-57-9P	651051-58-0P	651051-59-1P	<u>651051-60-4P</u>	
651051-61-5P	651051-62-6P	651051-63-7P	651051-64-8P	
<u>651051-65-9P</u>	<u>651051-66-0P</u>	<u>651051-67-1P</u>		
651051-68-2P	651051-69-3P	651051-70-6P	<u>651051-71-7P</u>	
651051-72-8P	651051-73-9P	651051-74-0P	651051-75-1P	651051-76-2P
651051-77-3P	651051-78-4P	651051-79-5P	651051-80-8P	651051-81-9P
651051-82-0P	651051-83-1P	651051-84-2P	<u>651051-85-3P</u>	
651051-86-4P	651051-87-5P	651051-88-6P	651051-89-7P	651051-90-0P
<u>651051-91-1P</u>	<u>651051-92-2P</u>	<u>651051-93-3P</u>		
<u>651051-94-4P</u>	<u>651051-95-5P</u>	<u>651051-96-6P</u>		
<u>651051-97-7P</u>	<u>651051-98-8P</u>	<u>651051-99-9P</u>		
<u>651052-00-5P</u>	<u>651052-01-6P</u>	<u>651052-02-7P</u>		
<u>651052-03-8P</u>	<u>651052-04-9P</u>	<u>651052-05-0P</u>		
<u>651052-06-1P</u>	651052-07-2P	651052-08-3P	651052-09-4P	
<u>651052-10-7P</u>	<u>651052-11-8P</u>	<u>651052-12-9P</u>		
<u>651052-13-0P</u>	651052-14-1P	651052-15-2P	651052-16-3P	
651052-17-4P	<u>651052-18-5P</u>	651052-19-6P	651052-20-9P	
651052-21-0P	651052-22-1P	651052-23-2P	651052-24-3P	651052-25-4P
651052-26-5P	651052-27-6P	651052-28-7P	651052-29-8P	651052-30-1P
651052-31-2P	651052-32-3P	651052-33-4P	651052-34-5P	651052-35-6P
651052-36-7P	651052-37-8P	651052-38-9P	651052-39-0P	651052-40-3P
651052-41-4P	651052-42-5P	651052-43-6P	651052-44-7P	651052-45-8P
651052-46-9P	651052-47-0P	651052-48-1P	651052-49-2P	651052-50-5P
651052-51-6P	651052-52-7P	651052-53-8P		

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

- (synthesis and therapeutic uses of ghrelin analogs)
- IT 121-44-8, Triethylamine, reactions 143-10-2, 1-Decanethiol 2127-03-9, 2,2'-Dipyridyl disulfide 2756-85-6, 1-Amino-1-cyclohexanecarboxylic acid 4530-20-5, 13139-15-6 13726-85-7 13734-34-4 13734-41-3 13836-37-8 15761-38-3 15761-39-4 23680-31-1 25024-53-7 29022-11-5, Fmoc-Gly-OH 35264-09-6 35661-39-3 35661-40-6 35661-60-0 54613-99-9 68858-20-8 71989-14-5 71989-18-9 71989-20-3 71989-26-9 71989-31-6 71989-33-8 73724-45-5 73821-97-3 83792-48-7 94744-50-0 109425-51-6 115951-16-1, 1-(tert-Butoxycarbonylamino)cyclohexanecarboxylic acid 154445-77-9 172611-74-4 177582-21-7
- RL: RCT (Reactant); RACT (Reactant or reagent)
- (synthesis and therapeutic uses of ghrelin analogs)
- IT 247900-75-0P
- RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
- (synthesis and therapeutic uses of ghrelin analogs)
- IT 110-89-4, Piperidine, reactions 302-01-2, Hydrazine, reactions 693-13-0, Diisopropylcarbodiimide 872-50-4, N-Methylpyrrolidone, reactions 1122-58-3, 4-(Dimethylamino)pyridine 2592-95-2, HOBt 6485-79-6, Triisopropylsilane 24424-99-5, Di-tert-butylidicarbonate 94790-37-1, HBTU 148893-10-1 164298-23-1, Tetramethylfluoroformamminium hexafluorophosphate
- RL: RGT (Reagent); RACT (Reactant or reagent)
- (synthesis and therapeutic uses of ghrelin analogs)
- IT 651377-52-5 651377-53-6
- RL: PRP (Properties)
- (unclaimed sequence; synthesis and therapeutic uses of ghrelin)

analogs)

L35 ANSWER 24 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2002:728364 HCAPLUS

DN 138:11970

TI Goldfish ghrelin: molecular characterization of the complementary deoxyribonucleic acid, partial gene structure and evidence for its stimulatory role in food intake

AU Unniappan, Surajlal; Lin, Xinwei; Cervini, Laura; Rivier, Jean; Kaiya, Hiroyuki; Kangawa, Kenji; Peter, Richard E.

CS Department of Biological Sciences, University of Alberta, Edmonton, AB, T6G 2E9, Can.

SO Endocrinology (2002), 143(10), 4143-4146

CODEN: ENDOAO; ISSN: 0013-7227

PB Endocrine Society

DT Journal

LA English

RE.CNT 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Goldfish ghrelin: molecular characterization of the complementary deoxyribonucleic acid, partial gene structure and evidence for its stimulatory role in food intake

AB Complementary DNA (cDNA) encoding goldfish preproghrelin was identified using rapid amplification of the cDNA ends (RACE) and reverse transcription (RT)-polymerase chain reaction (PCR). The 490 bp cDNA encodes a 103 amino acid preproghrelin which has a 26 amino acid signal peptide region, 19 amino acid mature peptide and a 55 amino acid C-terminal peptide region. The mature peptide region of goldfish ghrelin has two putative cleavage sites and amidation signals (GRR); one after 12 amino acids and the other after 19 amino acids. The serine (S) in the second amino acid position in the "active core" of ghrelin is substituted with threonine (T). The goldfish ghrelin gene has four exons and three short introns and resembles the human ghrelin gene. Ghrelin mRNA (mRNA) expression was detected in the brain, pituitary, intestine, liver, spleen and gill by RT-PCR followed by Southern blot anal., and in the intestine by Northern blot. Intracerebroventricular (ICV) injection of n-octanoylated goldfish ghrelin (1-19) stimulates food intake in goldfish.

ST goldfish ghrelin protein gene cDNA sequence expression

IT Intestine

(ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Gene, animal

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(ghrelin, expression; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Brain

(hindbrain, ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Brain

(hypothalamus, ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food

intake)

IT Brain
(midbrain, ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Carassius auratus
Protein motifs
Protein sequences
cDNA sequences
(mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Brain
(olfactory bulb, ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Feeding
(role of ghrelin on; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT Brain
(telencephalon, ghrelin mRNA expression in; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT 477722-50-2 477759-95-8, Ghrelin, prepro-
(Carassius auratus) 477759-96-9, Ghrelin, pro-
(Carassius auratus)
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(amino acid sequence; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT 304853-26-7, Ghrelin
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

IT 456948-64-4, GenBank AF454389
RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)
(nucleotide sequence; mol. characterization of goldfish ghrelin complementary DNA, partial gene structure and evidence for its stimulatory role in food intake)

L35 ANSWER 25 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN
AN 2001:886171 HCAPLUS
DN 136:32165
TI Ghrelin analogs for use in screening compounds with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion
IN Bednarek, Maria
PA Merck & Co., Inc., USA
SO PCT Int. Appl., 37 pp.
CODEN: PTXXD2
DT Patent

LA English

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001092292	A2	20011206	WO 2001-US17026	20010525
	WO 2001092292	A3	20030814		
	W: CA, JP, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
	CA 2411667	A1	20011206	CA 2001-2411667	20010525
	EP 1353683	A2	20031022	EP 2001-939465	20010525
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI, CY, TR				
	JP 2004514651	T	20040520	JP 2002-500904	20010525
	US 20030186844	A1	20031002	US 2002-276392	20021115
	US 6967237	B2	20051122		
PRAI	US 2000-207920P	P	20000530		
	WO 2001-US17026	W	20010525		
OS	MARPAT 136:32165				
TI	<u>Ghrelin</u> analogs for use in screening compounds with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion				
AB	The present invention features truncated <u>ghrelin</u> analogs active at the growth hormone secretagogue (GHS) receptor. <u>Ghrelin</u> is a naturally occurring modified peptide. The analogs can bind to the GHS receptor and, preferably, bring about signal transduction. <u>Ghrelin</u> analogs have a variety of different uses including being used as a research tool and being used therapeutically. Also claimed are the use of <u>ghrelin</u> analogs for the purpose of screening for compds. that have the ability to bind to and activate GHS receptors, and analogs that can induce growth hormone secretion.				
ST	<u>ghrelin</u> analog human cDNA sequence GHS receptor signaling screening				
IT	G protein-coupled receptors				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (GHSR (growth hormone secretagogue receptor); <u>ghrelin</u> analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)				
IT	Drug screening				
	Human				
	Protein sequences				
	Secretion (process)				
	Signal transduction, biological				
	cDNA sequences				
	(<u>ghrelin</u> analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)				
IT	9002-72-6, Growth hormone				
	RL: BSU (Biological study, unclassified); BIOL (Biological study) (<u>ghrelin</u> analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)				
IT	258279-04-8P	304853-26-7DP,	<u>Ghrelin</u> , analogs	313951-54-1P	
	313951-55-2P	313951-56-3P	313951-57-4P	313951-58-5P	313951-59-6P
	313951-60-9P	313951-61-0P	313951-62-1P	313951-63-2P	313951-64-3P
	<u>313951-65-4P</u>	313951-66-5P	<u>313951-67-6P</u>	313951-68-7P	
	313951-69-8P	313951-70-1P	313951-71-2P	313951-72-3P	313951-73-4P
	313951-74-5P	313951-75-6P	313951-76-7P	313951-77-8P	313951-78-9P

313951-79-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(ghrelin analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)

IT 180425-80-3

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(nucleotide sequence; ghrelin analogs for use in screening compds. with growth hormone secretagogue receptor-activating ability and for inducing growth hormone secretion)

L35 ANSWER 26 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:662512 HCAPLUS

DN 135:366876

TI Structure-Activity Relationship of Ghrelin: Pharmacological Study of Ghrelin Peptides

AU Matsumoto, Masaru; Hosoda, Hiroshi; Kitajima, Yasuo; Morozumi, Naomi; Minamitake, Yoshiharu; Tanaka, Shoji; Matsuo, Hisayuki; Kojima, Masayasu; Hayashi, Yujiro; Kangawa, Kenji

CS Suntory Institute for Medicinal Research & Development, Akaiwa,

Chiyoda-machi, Ohra-gun, Gunma, 370-0503, Japan

SO Biochemical and Biophysical Research Communications (2001), 287(1), 142-146

CODEN: BBRC9; ISSN: 0006-291X

PB Academic Press

DT Journal

LA English

RE.CNT 10 THERE ARE 10 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Structure-Activity Relationship of Ghrelin: Pharmacological Study of Ghrelin Peptides

AB Ghrelin, a novel peptide purified from the stomach, is the endogenous ligand of the growth hormone secretagogue receptor. The Ser3 residue of ghrelin is modified with a lipid n-octanoic acid, a modification necessary for hormonal activity. To clarify the role of acyl modification and to identify the active core of ghrelin, we examined the activities of partially digested ghrelin and synthetic ghrelin derivs. The activities confirmed that the N-terminal portion is the active core. Moreover, synthetic ghrelin derivs. demonstrated that octanoic acid is not the only modification of the Ser3 side chain to sustain the activity of ghrelin; other acyl acid modifications maintained activity. Amino acid replacement of Ser3 indicated that an L-configuration of the third residue is critical for ghrelin activity. In addition, more stable ether or thioether bonds are capable of replacing the octanoyl ester bond in ghrelin, advantageous for the generation of pharmaceuticals with longer stability. (c) 2001 Academic Press.

ST ghrelin structure activity

IT Structure-activity relationship
(structure-activity relationship pharmacol. study of ghrelin peptides)

IT 258279-04-8, Human ghrelin 258338-12-4, Rat ghrelin
293735-04-3 304853-26-7, Ghrelin 307950-60-3 313951-77-8
321974-76-9 321974-78-1 321974-80-5 321974-82-7 321974-91-8
321974-93-0 321975-17-1 321975-27-3 321975-62-6 321975-80-8

321975-85-3 321975-86-4 321975-87-5 321975-88-6 321975-89-7
 321975-90-0 342046-87-1 342046-88-2 342046-89-3 342046-90-6
 342046-91-7 342046-94-0 342046-96-2 342046-97-3 342046-98-4
 342046-99-5 342047-04-5 374629-82-0 374629-83-1 374629-88-6
 374629-89-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study) (structure-activity relationship pharmacol. study of ghrelin peptides)

L35 ANSWER 27 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:311717 HCAPLUS

DN 135:602

TI Structure-activity relationships of ghrelin: endogenous growth hormone secretagogue

AU Matsumoto, Masaru; Kitajima, Yasuo; Iwanami, Tatsuya; Morozumi, Naomi; Hayashi, Yujiro; Tanaka, Shoji; Minamitake, Yoshiharu; Hosoda, Hiroshi; Kojima, Masayasu; Matsuo, Hisayuki; Kangawa, Kenji

CS Institute for Medicinal R&D, Suntory Limited, Gunma, 370-0503, Japan

SO Peptide Science (2001), Volume Date 2000, 37th, 101-104

CODEN: PSCIFQ; ISSN: 1344-7661

PB Japanese Peptide Society

DT Journal

LA English

RE.CNT 5 THERE ARE 5 CITED REFERENCES AVAILABLE FOR THIS RECORD
 ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Structure-activity relationships of ghrelin: endogenous growth hormone secretagogue

AB Ghrelin, an endogenous ligand for growth hormone secretagogue-receptor (GHS-R), consists of 28 amino acid residues with unique octanoyl modification at Ser3. Ghrelin derivs. were systematically synthesized to investigate the roles of acyl group, length of fatty acid, peptide length, etc. The assay using cells expressing GHS-R demonstrated that N-terminus (1-4) with hydrophobicity at the 3rd residue was essential to increase intracellular Ca²⁺, suggesting that it is the active core structure. Structural similarity of the derivs. to synthetic GHSs is also discussed.

ST ghrelin growth hormone secretagogue receptor binding structure activity

IT Receptors

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(growth hormone secretagogue; structure-activity relationships of ghrelin in relation to binding affinity of ghrelin derivs. to endogenous growth hormone secretagogue receptor)

IT Structure-activity relationship (structure-activity relationships of ghrelin in relation to binding affinity of ghrelin derivs. to endogenous growth hormone secretagogue receptor)

IT 342046-86-0

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study); PROC (Process)

(residue 3 of ghrelin; structure-activity relationships of ghrelin in relation to binding affinity of ghrelin derivs. to endogenous growth hormone secretagogue receptor)

IT 170851-70-4P, Ipamorelin 258279-04-8P, Human ghrelin

258338-12-4P, Rat ghrelin 313951-65-4P 313951-74-5P

313951-75-6P 313951-77-8P 321974-68-9P 321974-72-5P 321974-76-9P

321974-78-1P 321974-80-5P 321974-82-7P 321974-84-9P 321974-86-1P
 321974-88-3P 321974-91-8P 321974-93-0P 321975-01-3P 321975-03-5P
 321975-17-1P 321975-25-1P 321975-27-3P 321975-29-5P 321975-31-9P
 321975-33-1P 321975-35-3P 321975-39-7P 321975-42-2P 321975-44-4P
 321975-46-6P 321975-48-8P 321975-50-2P 321975-52-4P 321975-56-8P
 321975-62-6P 321975-67-1P 321975-69-3P 321975-73-9P 321975-85-3P
 342046-87-1P 342046-88-2P 342046-89-3P 342046-90-6P 342046-91-7P

342046-92-8P 342046-93-9P 342046-94-0P 342046-95-1P
 342046-96-2P 342046-97-3P 342046-98-4P 342046-99-5P 342047-04-5P

RL: BPR (Biological process); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); PROC (Process)

(structure-activity relationships of *ghrelin* in relation to binding affinity of *ghrelin* derivs. to endogenous growth hormone secretagogue receptor)

L35 ANSWER 28 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2001:78416 HCAPLUS

DN 134:142304

TI Novel ghrelins, their encoding DNA sequences, and their use as therapeutics

IN Kangawa, Kenji; Kojima, Masayasu; Hosoda, Hiroshi; Matsuo, Hisayuki; Minamitake, Yoshiharu

PA Japan

SO PCT Int. Appl., 210 pp.

CODEN: PIXXD2

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2001007475	A1	20010201	WO 2000-JP4907	20000724
	W: AE, AG, AL, AM, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CN, CR, CU, CZ, DM, DZ, EE, GE, GD, GE, HR, HU, ID, IL, IN, IS, JP, KG, KR, KZ, LC, LK, LR, LT, LV, MA, MD, MG, MK, MN, MX, NO, NZ, PL, RO, RU, SG, SI, SK, TJ, TM, TR, TT, UA, US, UZ, VN, YU, ZA, ZM				
	RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
	CA 2380058	A1	20010201	CA 2000-2380058	20000724
	BR 2000012688	A	20020416	BR 2000-12688	20000724
	EP 1197496	A1	20020417	EP 2000-946453	20000724
	EP 1197496	B1	20070711		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, CY				
	JP 3471780	B2	20031202	JP 2001-512558	20000724
	AU 784035	B2	20060119	AU 2000-60231	20000724
	EP 1795598	A1	20070613	EP 2007-6224	20000724
	R: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
	AT 366813	T	20070815	AT 2000-946453	20000724
	ES 2288151	T3	20080101	ES 2000-946453	20000724
	US 7385026	B1	20080610	US 2001-959577	20011030
	KR 827973	B1	20080521	KR 2002-700758	20020118
	JP 2004000251	A	20040108	JP 2003-271241	20030707
	JP 4227857	B2	20090218		
	AU 2006201580	A1	20060518	AU 2006-201580	20060413
	AU 2006201580	B2	20090108		

PRAI JP 1999-210002 A 19990723
 JP 1999-338841 A 19991129
 JP 2000-126623 A 20000426
 AU 2000-60231 A3 20000724
 EP 2000-946453 A3 20000724
 JP 2001-512558 A3 20000724
 WO 2000-JP4907 W 20000724

RE.CNT 11 THERE ARE 11 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

AB Novel ghrelins, the natural ligands for growth hormone (GH) secretagogue receptors, and their derivs. that have ≥1 amino acid substituted with a modified amino acid or non-amino acid compound are prepared and used as a therapeutic for inducing the secretion of growth hormone. Ghrelins are also able to increase the intracellular concentration of calcium ions. An 117-amino acid ghrelin isolated from the stomach of rats contains a serine derivative (3rd residue) that is modified with n-octanoyl (C8:0) fatty acid. Ghrelins and their encoding cDNA sequences isolated from human and other animals are also shown. The structural-activity relationship of chemical synthesized ghrelin derivs. of human or rats were also described. Claimed are methods for recombinant preparation of ghrelins, antibodies to ghrelins, methods for immunoassay of ghrelins, and use of ghrelins for treating the diseases associated with growth hormone deficiency.

ST ghrelin cDNA protein sequence; structure activity

ghrelin deriv; growth hormone secretagogue therapeutic

IT 213825-66-2D, O-fatty acyl derivs. 258259-89-1D, O-fatty acyl derivs.

293339-41-0D, O-fatty acyl derivs. 322483-09-0D, O-fatty acyl derivs.

322483-12-5 322483-13-6 322483-15-8, Ghrelin (cattle prepro

fragment) 322483-17-0, Ghrelin (Anguilla japonica prepro)

322483-18-1, Ghrelin (Xenopus laevis prepro) 322483-19-2

322483-20-5

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(amino acid sequence; novel ghrelins, encoding DNA sequences, and use as therapeutics)

IT 259231-00-0P 313951-65-4P 313951-75-6P 313951-77-8P

321974-68-9P 321974-70-3P 321974-72-5P 321974-74-7P 321974-76-9P

321974-78-1P 321974-80-5P 321974-82-7P 321974-84-9P 321974-86-1P

321974-88-3P 321974-91-8P 321974-93-0P 321974-95-2P 321974-97-4P

321974-99-6P 321975-01-3P 321975-03-5P 321975-05-7P 321975-07-9P

321975-09-1P 321975-11-5P 321975-13-7P 321975-15-9P 321975-17-1P

321975-19-3P 321975-21-7P 321975-23-9P 321975-25-1P 321975-27-3P

321975-29-5P 321975-31-9P 321975-33-1P 321975-35-3P 321975-37-5P

321975-39-7P 321975-42-2P 321975-44-4P 321975-46-6P 321975-48-8P

321975-50-2P 321975-52-4P 321975-56-8P 321975-58-0P 321975-60-4P

321975-62-6P 321975-65-9P 321975-67-1P 321975-69-3P 321975-71-7P

321975-73-9P 321975-77-3P 321975-80-8P 321975-82-0P

321975-84-2P 321975-85-3P 321975-86-4P 321975-87-5P 321975-88-6P

321975-89-7P 321975-90-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(novel ghrelins, encoding DNA sequences, and use as therapeutics)

IT 252925-13-6 252925-14-7, DNA (human ghrelin cDNA plus flanks)

308789-38-0 322483-10-3 322483-11-4 322483-14-7 322483-16-9, DNA

(cattle ghrelin cDNA fragment) 322483-21-6 322483-22-7

322483-23-8 322483-24-9

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(nucleotide sequence; novel ghrelin, encoding DNA sequences, and use as therapeutics)

L35 ANSWER 29 OF 29 HCAPLUS COPYRIGHT 2009 ACS on STN

AN 2000:758603 HCAPLUS

DN 134:51509

TI Structure-Function Studies on the New Growth Hormone-Releasing Peptide, Ghrelin: Minimal Sequence of Ghrelin Necessary for Activation of Growth Hormone Secretagogue Receptor 1a

AU Bednarek, Maria A.; Feighner, Scott D.; Pong, Sheng-Shung; McKee, Karen Kulju; Hreniuk, Donna L.; Silva, Maria V.; Warren, Vivien A.; Howard, Andrew D.; Van der Ploeg, Lex H. Y.; Heck, James V.

CS Departments of Medicinal Chemistry Metabolic Disorders Drug Metabolism and Membrane Biochemistry and Biophysics, Merck Research Laboratories, Rahway, NJ, 07065, USA

SO Journal of Medicinal Chemistry (2000), 43(23), 4370-4376

CODEN: JMCMAR; ISSN: 0022-2623

PB American Chemical Society

DT Journal

LA English

RE.CNT 18 THERE ARE 18 CITED REFERENCES AVAILABLE FOR THIS RECORD

ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Structure-Function Studies on the New Growth Hormone-Releasing Peptide, Ghrelin: Minimal Sequence of Ghrelin Necessary for Activation of Growth Hormone Secretagogue Receptor 1a

AB The recently discovered growth hormone secretagogue, ghrelin, is a potent agonist at the human growth hormone secretagogue receptor 1a (hGHSR1a). To elucidate structural features of this peptide necessary for efficient binding to and activation of the receptor, several analogs of ghrelin with various aliphatic or aromatic groups in the side chain of residue 3, and several short peptides derived from ghrelin, were prepared and tested in a binding assay and in an assay measuring intracellular calcium elevation in HEK-293 cells expressing hGHSR1a. Bulky hydrophobic groups in the side chain of residue 3 turned out to be essential for maximum agonist activity. Also, short peptides encompassing the first 4 or 5 residues of ghrelin were found to functionally activate hGHSR1a about as efficiently as the full-length ghrelin. Thus, the entire sequence of ghrelin is not necessary for activity: the Gly-Ser-Ser(n-octanoyl)-Phe segment appears to constitute the "active core" required for agonist potency at hGHSR1a.

ST ghrelin structure activity; growth hormone secretagogue receptor ghrelin structure activity

IT Structure-activity relationship

(ghrelin structure-function studies and minimal sequence necessary for activation of growth hormone secretagogue receptor 1a)

IT Growth hormone-releasing hormone receptors

RL: BPR (Biological process); BSU (Biological study, unclassified); BIOL (Biological study); PROC (Process)

(growth hormone secretagogue receptor 1a; ghrelin

structure-function studies and minimal sequence necessary for activation of growth hormone secretagogue receptor 1a)

IT 258279-04-8, Ghrelin (human) 313951-54-1 313951-55-2

313951-56-3 313951-57-4 313951-58-5 313951-59-6 313951-60-9

313951-61-0 313951-62-1 313951-63-2 313951-64-3 313951-65-4

313951-66-5 313951-67-6 313951-68-7 313951-69-8
313951-70-1 313951-71-2 313951-72-3 313951-73-4 313951-74-5
313951-75-6 313951-76-7 313951-77-8 313951-78-9 313951-79-0
RL: BAC (Biological activity or effector, except adverse); BPR (Biological
process); BSU (Biological study, unclassified); PRP (Properties); BIOL
(Biological study); PROC (Process)

(ghrelin structure-function studies and minimal sequence
necessary for activation of growth hormone secretagogue receptor 1a)

=> s 313951-65-4 or 342046-92-8
 1 313951-65-4
 (313951-65-4/RN)
 1 342046-92-8
 (342046-92-8/RN)
 L1 2 313951-65-4 OR 342046-92-8

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L1 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
 RN **342046-92-8** REGISTRY
 CN L-Arginine, glycyl-L-seryl-(2S)-2-aminododecanoyl-L-phenylalanyl-L-leucyl-L-seryl-L-prolyl-L- α -glutamyl-L-histidyl-L-glutamyl-L-arginyl-L-valyl-L-glutamyl-L-glutamyl-L-arginyl-L-lysyl-L- α -glutamyl-L-seryl-L-lysyl-L-lysyl-L-prolyl-L-prolyl-L-alanyl-L-lysyl-L-leucyl-L-glutamyl-L-prolyl- (9CI) (CA INDEX NAME)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 28
 NTE

type	-----	location	-----	description
uncommon	Aaa-3	-	-	

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RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF C150 H253 N47 O40

SR CA

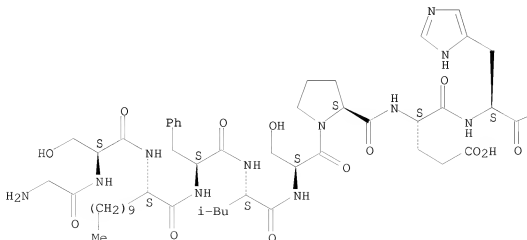
LC STN Files: CA, CAPLUS

DT.CA Caplus document type: Journal

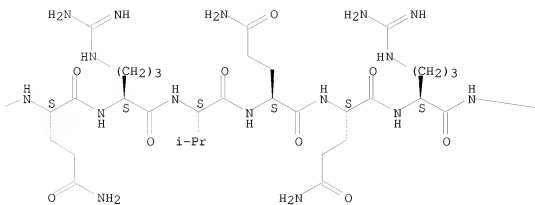
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties)

Absolute stereochemistry.

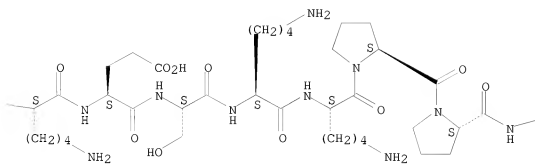
PAGE 1-A



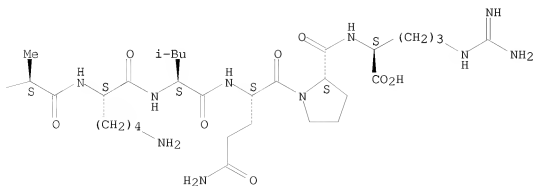
PAGE 1-B



PAGE 1-C



PAGE 1-D



PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

1 REFERENCES IN FILE CA (1907 TO DATE)
1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L1 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN
RN 313951-65-4 REGISTRY
CN L-Arginine, glycyl-L-seryl-3-[(1-oxooctyl)amino]-L-alanyl-L-phenylalanyl-L-leucyl-L-seryl-L-prolyl-L- α -glutamyl-L-histidyl-L-glutaminy-L-arginyl-L-valyl-L-glutaminy-L-glutaminy-L-arginyl-L-lysyl-L- α -glutamyl-L-seryl-L-lysyl-L-lysyl-L-prolyl-L-prolyl-L-alanyl-L-lysyl-L-leucyl-L-glutaminy-L-prolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 19: PN: W00192292 SEQID: 18 claimed protein

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 28

NTE modified (modifications unspecified)

type	-----	location	-----	description
uncommon	Dpr-3	-	-	
modification	Dpr-3	-	-	1-oxooctyl<Oct>

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

=====+=====

Not Given|W02001092292
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SEQ 1 GSXFLSPEHQ RVQQRKESKK PPAKLQPR

RELATED SEQUENCES AVAILABLE WITH SEQLINK

MF C149 H250 N48 O41

SR CA

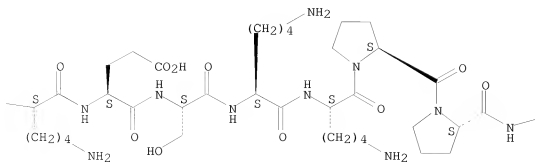
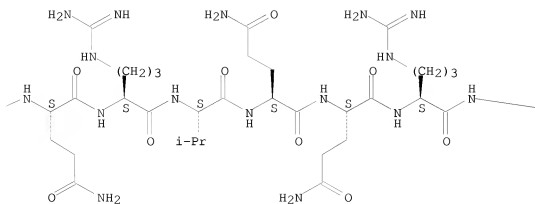
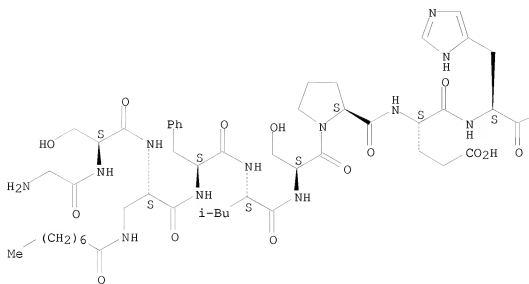
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

DT.CA CAPLUS document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)

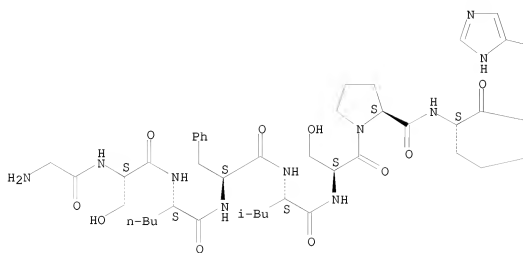
RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties)

Absolute stereochemistry.

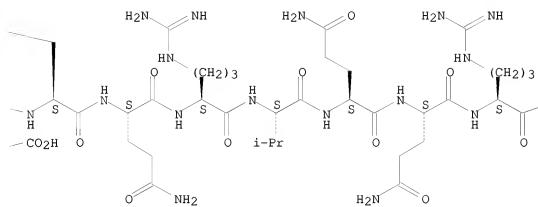


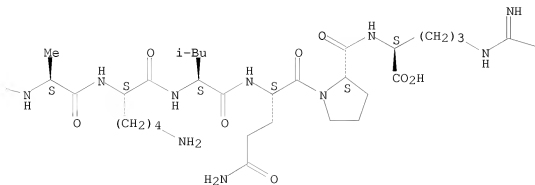
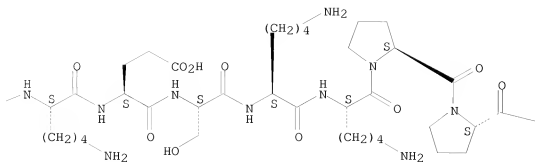
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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      1 313951-65-4
      (313951-65-4/RN)
      1 313951-67-6
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(313951-67-6/RN)

L3 2 313951-65-4 OR 313951-67-6

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YOU HAVE REQUESTED DATA FROM 2 ANSWERS - CONTINUE? Y/(N):y

L3 ANSWER 1 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN

RN **313951-67-6** REGISTRY

CN L-Glutamine, glycyL-L-seryl-3-[(1-oxooctyl)amino]-L-alanyl-L-phenylalanyl-L-leucyl-L-seryl-L-prolyl-L- α -glutamyl-L-histidyl-L-glutaminyL-L-arginyL-L-valyl-L-glutaminyL- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 4: PN: W00192292 SEQID: 3 claimed protein

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 14

NTE modified (modifications unspecified)

type	-----	location	-----	description
uncommon	Dpr-3	-	-	
modification	Dpr-3	-	-	1-oxooctyl<Oct>

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

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Not Given|W02001092292

|claimed SEQID

|3

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MF C76 H121 N23 O23

SR CA

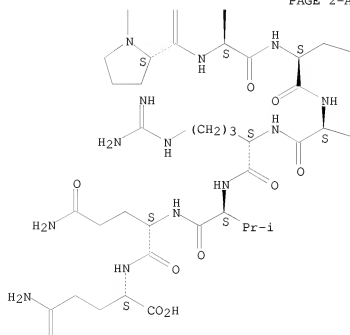
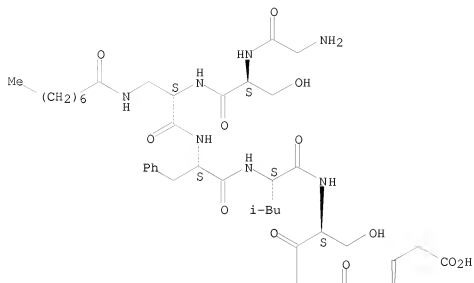
LC STN Files: CA, CAPLUS, USPAT2, USPATFULL

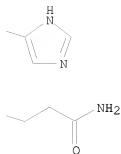
DT.CA CPlus document type: Journal; Patent

RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); USES (Uses)

RL.NP Roles from non-patents: BIOL (Biological study); PROC (Process); PRP (Properties)

Absolute stereochemistry.





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

2 REFERENCES IN FILE CA (1907 TO DATE)
2 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L3 ANSWER 2 OF 2 REGISTRY COPYRIGHT 2009 ACS on STN

RN **313951-65-4** REGISTRY

CN L-Arginine, glycyl-L-seryl-3-[(1-oxooctyl)amino]-L-alanyl-L-phenylalanyl-L-leucyl-L-seryl-L-prolyl-L- α -glutamyl-L-histidyl-L-glutamyl-L-arginyl-L-valyl-L-glutamyl-L-glutamyl-L-arginyl-L-lysyl-L- α -glutamyl-L-seryl-L-lysyl-L-lysyl-L-prolyl-L-prolyl-L-alanyl-L-lysyl-L-leucyl-L-glutamyl-L-prolyl- (9CI) (CA INDEX NAME)

OTHER NAMES:

CN 19: PN: W00192292 SEQID: 18 claimed protein

FS PROTEIN SEQUENCE; STEREOSEARCH

SQL 28

NTE modified (modifications unspecified)

type	location	description
uncommon	Dpr-3	-
modification	Dpr-3	1-oxooctyl<Oct>

PATENT ANNOTATIONS (PNTE):

Sequence |Patent

Source |Reference

Not Given|W02001092292
|claimed SEQID
|18

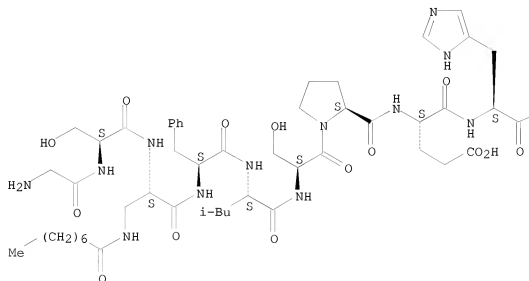
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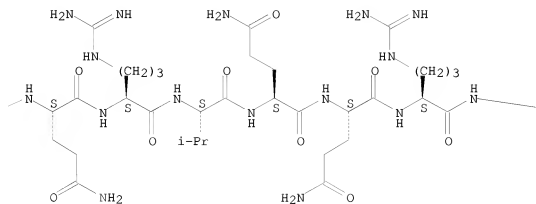
MF C149 H250 N48 O41
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 LC STN Files: CA, CAPLUS, USPAT2, USPATFULL
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: BIOL (Biological study); PREP (Preparation); PRP (Properties); USES (Uses)
 RL.NP Roles from non-patents: BIOL (Biological study); PREP (Preparation); PROC (Process); PRP (Properties)

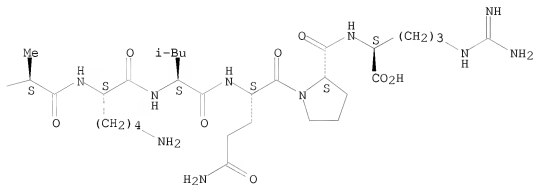
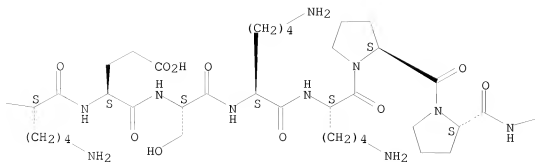
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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4 REFERENCES IN FILE CAPLUS (1907 TO DATE)

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1 477722-50-2/RN

1 477759-95-8/RN

1 477759-96-9/RN

L4 3 477722-50-2/RN OR 477759-95-8/RN OR 477759-96-9/RN

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YOU HAVE REQUESTED DATA FROM 3 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN

RN 477759-96-9 REGISTRY

CN	<u>Ghrelin, pro-</u>	(<i>Carassius auratus</i>)	(9CI)	(CA INDEX NAME)
----	----------------------	------------------------------	-------	-----------------

FS PROTEIN SEQUENCE

SQL 77

SEQ 1 GTSFLSPAQK PQGRRPPRMG RRDVAEPEIP VIKEDDQFMM SAPFELSVSL
 51 SEAEYEKYP VLQKVLVNL GDSPLEF
 MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 2 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
 RN **477759-95-8** REGISTRY
 CN Ghrelin, prepro- (Carassius auratus) (9CI) (CA INDEX NAME)
 OTHER NAMES:
 CN GenBank AAN16215
 CN GenBank AAN16215 (Translated from: GenBank AF454389)
 FS PROTEIN SEQUENCE
 SQL 103

SEQ 1 MPLRRRASHM FVLLCALSLC VESVKGGTSF LSPAQKPQGR RPPRMGRD
 51 AEPEIPVIKE DDQFMMSAPF ELSVSLSEAE YEKYGPVLQK VLVNLLGDSF
 101 LEF

****RELATED SEQUENCES AVAILABLE WITH SEQLINK****

MF Unspecified
 CI MAN
 SR CA
 LC STN Files: CA, CAPLUS
 DT.CA CAplus document type: Journal
 RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)
 1 REFERENCES IN FILE CA (1907 TO DATE)
 1 REFERENCES IN FILE CAPLUS (1907 TO DATE)

L4 ANSWER 3 OF 3 REGISTRY COPYRIGHT 2009 ACS on STN
 RN **477722-50-2** REGISTRY
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 L-arginyl-L-prolyl-L-prolyl-L-arginyl-L-methionylglycyl-L-arginyl- (CA
 INDEX NAME)
 OTHER NAMES:
 CN 44: PN: WO2008136511 SEQID: 44 unclaimed protein
 CN Ghrelin (Carassius auratus)
 FS PROTEIN SEQUENCE; STEREOSEARCH
 SQL 22

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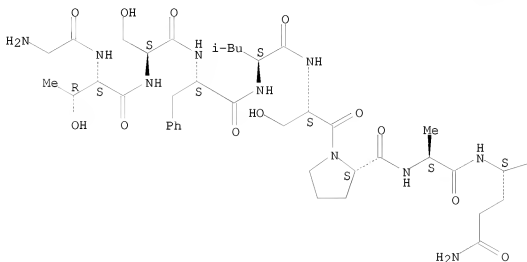
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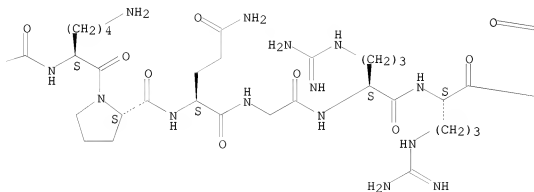
SR CA
 LC STN Files: CA, CAPLUS, TOXCENTER
 DT.CA Caplus document type: Journal; Patent
 RL.P Roles from patents: PRP (Properties)
 RL.NP Roles from non-patents: BIOL (Biological study); PRP (Properties)

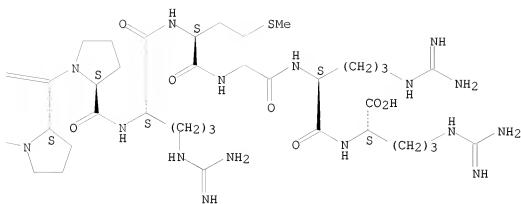
Absolute stereochemistry.

PAGE 1-A



PAGE 1-B





PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT

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2 REFERENCES IN FILE CAPLUS (1907 TO DATE)